

Appl. No. 09/696,927
Response to Office Action of July 28, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An authentication information communication system made up of a portable information processing device executing the communication through a human body, and a service furnishing device, wherein said portable information processing device includes

a contact point A contacting the human body to establish a communication path through said human body;

fixed data storage means for memorizing fixed user identification data capable of identifying a user;

variable data storage means for holding first variable user identification data corresponding to a first service identifier corresponding to a first service furnished by said service furnishing device and second variable user identification data corresponding to a second service identifier corresponding to a second service, wherein said first variable user identification data is different from said second variable user identification data and wherein said first service is different from said second service;

synthesizing means for synthesizing said fixed user identification data and said first variable user identification data; and

outputting means for outputting at least authentication data which is based on said first variable user identification data; and wherein said service furnishing device includes

a contact point B contacting the human body to establish a communication path through said human body;

service identifier holding means for holding said first service identifier corresponding to said first service to be furnished; and

control means for controlling service execution based on the results of the authentication processing which is based on said authentication data; and

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wherein through said contact points A and B, said first service identifier is transmitted from said service furnishing device to said portable information processing device and then said authentication data as a response to said first service identifier is transmitted from said portable information processing device to said service furnishing device.

Claims 2-4 (canceled)

Claim 5 (original): The authentication information communication system according to claim 1 wherein said service furnishing device includes means for generating user identification data for authentication corresponding to a service to be furnished; and wherein

said portable information processing device is configured for receiving user identification data for authentication generated by said means adapted for generating user identification data for authentication from said service furnishing device through said contact points A and B for storage as variable user identification data in said variable user identification data storages means.

Claim 6 (original): The authentication information communication system according to claim 1 further comprising:

user management means for executing authentication processing for a user; said user management means having a registration table having registered therein the user registration state and the service use state from one registered user to another, said user management means being configured for executing the authentication processing based on said registration table.

Claim 7 (original): The authentication information communication system according to claim 1 further comprising:

service registration means for registering a service furnished to the user; said service registration means including means for generating user identification data for authentication corresponding to a service to be furnished by said service furnishing device; said portable information processing device being configured for storing the user identification data for

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authentication generated by said service registration means in said variable user identification data storage means as variable user identification data.

Claim 8 (currently amended): The authentication information communication system according to claim 1 wherein said first variable user identification data includes the information for setting the service mode of a first service furnished by said service furnishing device.

Claim 9 (currently amended): A portable information processing device for executing communication with a service furnishing device through a human body, said portable information processing device includes

a contact point A contacting the human body to establish a communication path through said human body;

fixed data storage means for memorizing fixed user identification data capable of identifying a user;

variable data storage means for holding first variable user identification data corresponding to a first service furnished by said service furnishing device and second variable user identification data corresponding to a second service, wherein said first variable user identification data is different from said second variable user identification data and wherein said first service is different from said second service; and

outputting means for outputting at least authentication data which is based on said variable user identification data.

Claim 10 (original): The portable information processing device according to claim 9 comprising:

synthesizing means for synthesizing fixed user identification data stored in said fixed data storage means and variable user identification data stored in said variable data storage means;

said synthesizing means generating authentication data which is based on said fixed user identification data and said variable user identification data.

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Claim 11 (currently amended): The portable information processing device according to claim 9 in which said first variable user identification data is stored in said variable data storage means in association with a service identifier; wherein

corresponding variable user identification data is extracted from said variable data storage means, based on the service identifier received from said service furnishing device to output the data for authentication which is based on the extracted variable user identification data.

Claim 12 (currently amended): The portable information processing device according to claim 9 wherein said first variable user identification data includes the mode setting information for the service furnished by said service furnishing device.

Claim 13 (original): The portable information processing device according to claim 9 wherein said contact point A is curved in profile to follow the mounting side of the human body.

Claim 14 (original): The portable information processing device according to claim 9 adapted for being mounted on one of a finger, an arm, a neck, a leg, a foot or a hand of the user.

Claim 15 (original): The portable information processing device according to claim 9 enclosed in any of a wrist-watch, a necklace, a ring a hair band or a bracelet.

Claim 16 (original): The portable information processing device according to claim 9 wherein said fixed data storage means and the variable data storage means are removable with respect to the portable information processing device.

Claim 17 (currently amended): A method for authentication information communication executed by a portable information processing device including a contact point A adapted for establishing a communication path through a human body on having contact therewith and a service furnishing device including a contact point B adapted for establishing a

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communication path through a human body on having contact therewith, said method comprising:

a step of storing first variable user identification data corresponding to a first service and second variable user identification data corresponding to a second service, wherein said first variable user identification data is different from said second variable user identification data, and wherein said first service is different from said second service;

a step of transmitting service identification data from said service furnishing device to said portable information processing device through said contacts B and A;

a step of extracting first variable user identification data corresponding to said service identification data from said variable user identification data storage means in said portable information processing device;

a step of generating data for authentication based on the first variable user identification data as extracted;

a step of outputting said data for authentication from said portable information processing device to said service furnishing device through said contact points A and B; and

a step of controlling service execution in said service furnishing device based on the results of authentication processing for said data for authentication.

Claim 18 (currently amended): The method for authentication information communication according to claim 17 wherein said step of generating said data for authentication included a step of synthesizing said first variable user identification data and said fixed user identification data.

Claim 19 (original): The method for authentication information communication according to claim 17 wherein said service furnishing device executes the step of authentication processing executing the authentication processing based on said data for authentication transmitted from said portable information processing device through said contact points A and B;

said control step controlling the service execution based on the result of authentication processing of said authentication processing step.

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Claim 20 (original): The method for authentication information communication according to claim 17 wherein said service furnishing device includes

a step of generating user identification data for authentication corresponding to a service to be furnished;

said portable information processing device receiving user identification data for authentication generated in said step of generating the user identification data for authentication, from said service furnishing device through said contacts B and A, and for storing the so-received data in said variable user identification data storage means as variable user identification data.

Claim 21 (original): The method for authentication information communication according to claim 17 further comprising:

a user management step of executing authentication processing for a user; said user management step including a step of generating a registration table having registered therein the user registration state and the service using state from one registered user to another;

said authentication processing being carried out based on said registration table.

Claim 22 (original): The method for authentication information communication according to claim 17 further comprising:

a step of registering a service to be furnished to a user;

said service registration step including a step of generating user identification data for authentication corresponding to a service furnished by said service furnishing device;

said portable information processing device having a step of storing the user identification data for authentication generated in said service registration step in said variable user identification data storage means as variable user identification data.

Claim 23 (currently amended): In a system for authentication information communication executed by a portable information processing device having a contact point A adapted for establishing a communication path through a human body on having contact

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therewith and a service furnishing device having a contact point B adapted for establishing a communication path through a human body on having contact therewith, a program furnishing medium for tangibly furnishing a computer program which causes a processing executed on a service furnishing device to be executed on a computer system, said computer program comprising:

a step of outputting service identification data from said service furnishing device through said contact point B to said portable information processing device, wherein said portable information processing device stores first variable user identification data corresponding to a first service and second variable user identification data corresponding to a second service, wherein said first variable user identification data is different from said second variable user identification data, and wherein said first service is different from said second service;

a step of receiving data for authentication generated by said portable information processing device based on the variable user identification data corresponding to said service identification data through said contact point B; and

a step of controlling the service execution based on the result of authentication processing for said data for authentication.

Claim 24 (currently amended): In a system for authentication information communication executed by a portable information processing device having a contact point A adapted for establishing a communication path through a human body on having contact therewith and a service furnishing device having a contact point B adapted for establishing a communication path through a human body on having contact therewith, a program furnishing medium for tangibly furnishing a computer program which causes a processing executed on a service furnishing device to be executed on a computer system, said computer program comprising:

a step of storing in a variable user identification data storage means first variable user identification data corresponding to a first service and second variable user identification data corresponding to a second service, wherein said first variable user identification data is different from said second variable user identification data, and wherein said first service is different from said second service;

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a step of receiving service identification data output from said service furnishing device to said portable information processing device through said contact out A;

a step of extracting variable user identification data corresponding to said service identification data from said variable user identification data storage means;

a step of generating data for authentication based on the variable user identification data as extracted; and

a step of outputting said data for authentication from said portable information processing device to said service furnishing device through said contact point A.

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